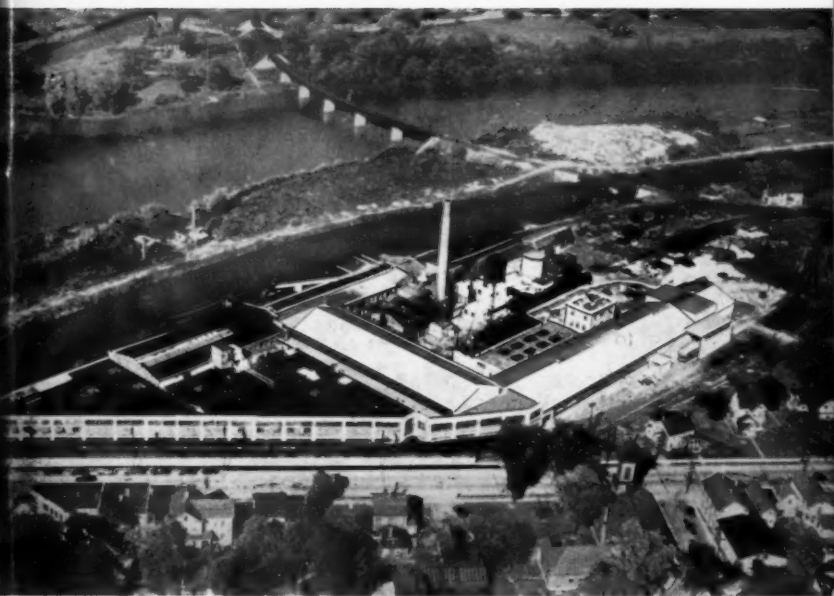
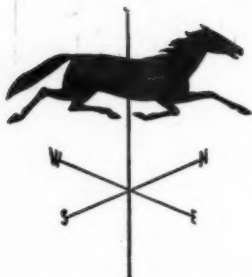


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FOUNDED IN JULY 1919 AND PUBLISHED
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Estate of C. J. STOVER, Proprietor

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MATERIALS SURVEY ON ASBESTOS

COMMENTS BY THE EDITOR

The Editor has just finished reading the Materials Survey on Asbestos which was issued in February of this year. We have found many things of interest, some of which we will bring to your particular attention.

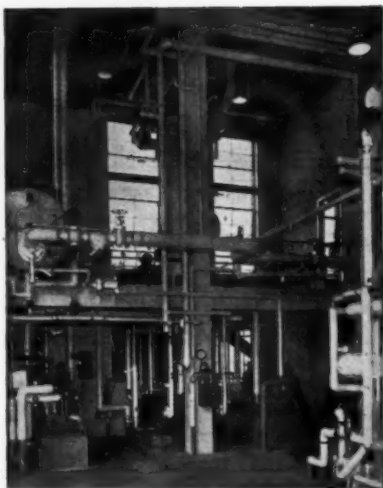
AMOSITE—A discussion on Amosite, its composition and construction, is especially interesting. "There is some doubt that amosite is a distinct mineral species. Rabbitt¹ found by x-ray analysis of two amosite samples from South Africa that both were monoclinic in crystallization and therefore were not anthophyllites. The chemical composition of one indicated that it was probably actinolite, and the other was probably cumingtonite. However, it seems desirable to retain the name—amosite—in commercial usage where it serves a useful purpose.

Amosite may contain as high as 40% iron oxide, but, as it is monoclinic in crystallization it is not a true anthophyllite, altho it is commonly classed as a high-iron anthophyllite. Amosite, unlike the true anthophyllites that are almost invariably weak and brittle, consists commonly of long, fairly strong fibres that have certain specialized uses. It is found only in Africa."

The physical properties of asbestos show why there is a difference in milling the different varieties.

"The outstanding physical characteristic of asbestos is its fibrous structure. Other important fibres found in nature are those of animal origin, such as wool and silk, and those of vegetable origin, such as cotton and flax. Nonflammability is one of the striking differences between asbestos and the fibrous products of animal or vegetable origin. Of perhaps equal importance is the difference in structure. Each filament of cotton, wool, or silk is of measurable and fairly constant diameter and indivisible into finer sizes. On the other hand, fibres of chrysotile asbestos can be divided and subdivided until a fineness is

¹ Rabbitt, John C. A New Study of the Anthophyllite Series: *Am. Mineral.*, vol. 33, May-June 1948, p. 287.



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attained that is limited only by the delicacy of the machinery used and the skill of manipulation. The ultimate fibre size is presumably the size of the ultimate molecule or crystal lattice of asbestos. In other words, fiberization is a cleavage process, and cleavage in minerals is defined as a tendency to split in a certain direction, that is, to separate along and between layers of molecules.

From the standpoint of use, fibre size is important, and the size will depend upon the degree of fiberization attained in milling. Fibres obtained from different deposits vary in the ease with which they may be fiberized. Thus, two samples of chrysotile asbestos, given exactly the same mill treatment, may furnish products differing considerably in fibre diameter, because one of them separates or fiberizes more easily than the other. Such differences may have great practical importance because an asbestos having difficult cleavage may require such intense milling to reduce the fibres to desirable fineness that they may be broken into undesirable short lengths. Ease or difficulty of fiberization is therefore an important property of asbestos."

Another paragraph which we regard as important is the following:

"The most pronounced recent trend in the Canadian asbestos industry is the great increase in the use of shorts for such products as asphalt floor tile. Some of these products contain 35% or more asbestos, which is said to impart exceptionally high qualities. All companies now operating mills in Quebec have introduced additional screens and suction facilities to recover part of the shorts formerly regarded as waste.

The dry process is universally used in asbestos milling. Wet methods were tried experimentally many years ago, but a commercial process was not developed. Recently, however, Johnson's Co. has erected a new wet-process plant for re-treating mill tailings to recover shorts. The process was developed by Selective Treatment Company, Ltd., under patents now expired. If operation of this mill proves advantageous, it may mark the beginning of a trend toward wet milling in the Quebec area."



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The following paragraph "Importance of Reserves" is important also.

"Current production thruout the world is an important element in the asbestos supply situation, but consideration of the availability of asbestos fibres cannot be confined merely to the present. Even tho immediate supplies may be adequate, the question inevitably arises, 'What are the prospects for obtaining equal or larger quantities of suitable fibre in the years to come?' The answer depends largely upon the extent of reserves of commercial fibre in the various asbestos-producing areas of the world. Knowledge of reserves is so important in planning future operations that the larger companies have spent vast sums on geologic surveys and prospect drilling so that adequate reserves may be definitely established as a solid basis for investment in mining and milling facilities. Unfortunately, much of the information thus assembled is confidential. However, considerable data on reserves are available, and whatever could be found is recorded in following paragraphs."

United States—"After a careful survey in 1944 by the Geological Survey and the Bureau of Mines, it was estimated that United States reserves of all grades of chrysotile amounted to about 750,000 short tons. Since that time, considerable prospect drilling has been conducted in the deposit at Eden, Vt., to a depth of about 800 feet, and a 20-year supply at the current or even an enlarged production rate seems to be assured. This would imply a reserve of at least 800,000 to 1,000,000 tons of fibre in that area. To be conservative, estimates of reserves are generally confined to producing areas, but there is always the possibility of discovery of new deposits that may supplement those already known. Prospect drilling by a private company was conducted on a chrysotile deposit north of Redding, Calif. during 1950 but was discontinued, presumably because the deposit proved to be too small to justify large-scale operations. Promising deposits of spinning-grade chrysotile have, however, been found in several places in Shasta, Trinity, and Siskiyou Counties, Calif., in an extensive serpentine area that merits ex-

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Asbestos Fibre Division
Canadian Johns-Manville Limited

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Montreal, P. Q., Canada

ploration. It is possible that reserves of considerable size may be discovered in that territory.

Long chrysotile fibres of good spinning quality are available in Arizona, but the known reserves are small. Nearly all of the asbestos mined in Vermont is of the shorter grades. Further exploration in Vermont may uncover deposits having a larger proportion of spinning fibres.


From the standpoint of asbestos that can be classed as strategic, known United States reserves are very small, but there is some basis for expecting more promising developments in the future. There are no known reserves of either amosite or erocidolite.

Canada—Estimates of Canadian reserves are incomplete. A great deal of prospect drilling has been done, but only in some instances are the results available. Asbestos Corporation Limited, the second largest producer in Quebec, has published quite complete data in its annual reports. The company estimates its ore reserves as of December 1950 as follows.

	Shorts Tons
King mine	8,400,000
Beaver mine	11,000,000
British Canadian mine	35,600,000
Vimy Ridge mine	25,450,000
other properties	7,300,000
<hr/>	
Total	87,750,000

Assuming a 6% fibre recovery, this would indicate a fibre reserve of more than five million tons. Drill exploration at the King mine shows asbestos-bearing serpentine to a depth of 1,700 feet. Johnson's Co. has increased its reserves greatly by diamond drilling. Bell Asbestos Mines has purchased a new property in Range 4, Thetford Township, on which it has developed a high-grade 2,000 by 800 foot ore body at least 300 feet deep.

The Johns-Manville Corporation has conducted extensive prospect drilling for many years. From information



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"ASBESTOS" — November 1952

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supplied by drill cores, the company has constructed large models of its undeveloped areas showing the quantity and grade of fibres, both laterally and vertically, as a guide to future development. The comprehensive data thus assembled have enabled the company to estimate that it has, within its present holdings, enough available fibre to last at least 100 years at the present rate of mining. These extensive deposits at Danville are predominantly short-fibre occurrences.

The over-all picture of reserves in the Quebec area is indefinite. The heavy investment in facilities and their expansion indicates that the principal producers have assured themselves of reserves adequate for continuous operation at the current rate, or on an enlarged scale, for at least 25 or 30 years. As current production is at a rate exceeding 800,000 tons of asbestos a year, a reserve of at least 30,000,000 tons for the Quebec area seems to be assured simply on the basis of expectations implied by capital investment and current rate of production. In view of the supplies available for a much longer period of extensive operations established by exploration by the largest producer, together with probable reserves in unexplored areas, the figure of 30,000,000 tons could easily be doubled or trebled.

Of greatest immediate interest are the reserves of crudes and spinning fibres. In 1948, 1949 and 1950 these groups comprised about 4% of the total output. Accordingly, if total reserves are tentatively estimated at a minimum of 60,000,000 tons, the reserves of crudes and spinning fibres would appear to be about 2,400,000 tons. Such a figure is based on the assumption that the proportion of longer fibres will be approximately the same in the future as it was in 1948 to 1950, but there is no assurance that such a proportion will be maintained. Production by grades was not published from 1933 to 1947, hence no definite figures are available for that period. For 1928 to 1932, during which such figures were published the proportion of crudes and spinning fibres to total production averaged about 6%. Accordingly, the figure of 4% for 1948 to 1950 indicates a decline, which may be more apparent than real. Consideration must be given to the

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recent great increase in recovery and sale of the very short fibres. This accession to the total will automatically lower the percentage of crudes and spinning fibres, altho the actual quantities of these fibres produced may be as high as in earlier years. There is no statistical evidence that would imply a reduction in output of spinning grades in the near future.

From the foregoing, it may be concluded that Quebec reserves are adequate for a half century of production, even at an increasing rate.

The new development in Munro Township, Ontario, provides a supplementary supply. The reserves are probably extensive but not of the magnitude of those in Quebec. This development has not produced grades and qualities of fibre suitable for textiles.

Soviet Russia—In the early 1930's, when information concerning Russian minerals was more readily available than at present, a statement was published to the effect that extensive and systematic core drilling had established a reserve for the entire Bajenova district of more than 3,000,000 metric tons of fibre within 50 feet of the surface. This estimate was based on a 2% recovery; and, as recovery is probably about 4½%, the estimate of reserves given above might easily be doubled. As the deposits extend far below the 50 foot level, a further substantial enlargement of the figure would be justified. In January 1934 the reserves of asbestos in the Soviet Union were estimated at 19,400,000 metric tons.

Southern Rhodesia—According to an estimate made in 1928, the reserves of asbestos in Southern Rhodesia deposits amounted to about 7,000,000 tons. During the ensuing 22 years, about 1,000,000 tons have been mined, which would reduce the reserves to about 6,000,000 tons; however, the rate of depletion probably has been reduced to some extent by enlargement of established reserves thru prospect drilling. The 170 and Birthday ore bodies, which are approximately 2,000 feet long and 100 feet wide and dip 25°, have been proved by drilling to a vertical depth of 1,000 feet. One diamond-drill hole in the Birthday



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section intercepted rock of good grade at a depth of 2,300 feet. The Nil Desperandum ore body has been proved to a depth of 850 feet.

The proportion of spinning-grade fibre produced in the Shabani area is exceptionally high. An estimate as high as 25 or 30% has been made, but in 1949 it was said that 20% of the output would satisfy stockpiling specifications, which call for Grades C. & G. Nos. 1 and 2. As the largest Rhodesian reserves are in the Shabani area, a reserve of spinning fibres exceeding 1,000,000 tons may be assumed.

Union of S. Africa, Transvaal—Moderate reserves of chrysotile occur in the Carolina district by the rich mines of the Barberton district (The New Amianthus and the Munnick—Myburgh) are virtually exhausted. However, recent exploratory work by Kinloch Asbestos (Proprietary) Ltd., has revealed large reserves. It is claimed that in this property 25 miles from Barberton there is in sight 5,000,000 tons of fibre-bearing rock with an asbestos content of about 170,000 tons. New possibilities for chrysotile occurrences appear also from recent exploration mentioned under Swaziland, because it was found that the serpentine belt extends at least 14 miles into Transvaal from the Swaziland border.

Amosite deposits cover a wide area and the fibre-veins show remarkable continuity over long distances. Hence it is inferred that the reserves are extensive, but no definite figures seem to be available. Koehler¹ estimates that there are ample reserves to last 100 years at present rate of output. Crocidolite occurs with amosite in the Pietersburg district in the western part of the amosite belt. The reserves are probably not extensive.

Cape of Good Hope—The crocidolite deposits of the cape extend over an area 240 miles long, with a maximum width of 30 miles. The area is so large and the fibre veins are distributed so generally thruout it that the reserves are undoubtedly very great, but no definite figures are available.

¹ Koehler, A. W., Cape Asbestos Co., personal communication 1951.



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Swaziland—The reserves at the Havelock mine are said to comprise 14,000,000 tons of rock carrying 4% asbestos. This would indicate the presence of over half a million tons of fibre. The reserves may, in fact, be greater than these estimates would indicate, because recent exploration has revealed an extension of the serpentine belt from the Havelock mine south-southwest to the Transvaal border, a distance of 17 miles.

China—China may have large reserves of asbestos. It was estimated in 1935 that Hopei Province had a reserve of 400,000 tons.

SUMMARY—The world as a whole appears to have adequate asbestos reserves for at least 25 or 30 years at current or moderately enlarged rates of output. United States reserves of the shorter fibres are small compared with domestic needs. Of the longer grades, the reserves are very small. The chief suppliers of United States markets—Canada and Africa—appear to have adequate reserves for long-range planning. The Soviet Union probably has reserves large enough to supply its domestic economy in war or peace for many years. To provide for a possible downward scaling of reserves or for a greatly enlarged consumption, the discovery and development of new deposits, especially in the United States, are highly desirable."

According to these estimates it would seem that manufacturers have, at present, no cause for worry altho some of the grades or qualities may be short from time to time.

Then there are several pages devoted to the Uses of the Various Types of Fibres; for instance, "Uses of Amosite, and Uses of Crocidolite". Then a paragraph "Interchangeability of Grades" which reads:

"As pointed out elsewhere in this report, the asbestos miner has virtually no control over the percentage of the various grades produced. He must mine the rock as he finds it and extract from it all grades present, the proportions of which are fixed by nature. It is inevitable that some grades are more in demand than others, and the most desirable grades may be those that are in short

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supply. Thus shortages may develop for the preferred grades; and, at times, accumulation of stocks of the less valuable fibres. Currently, however, all grades are in demand.

To meet this condition, a great deal of research has been devoted to substitution of the more abundant grades for those that are less plentiful but more in demand. For instance, much work has been done on adapting Canadian group 6 fibres for use in asbestos-cement products for which groups 4 or 5 are preferred. It was found that a thoro fiberization permitting intimate contact between cement and fibre made it possible to use the group 6 short fibres successfully. Similar problems are under investigation constantly.

Much has been written on the multitudinous uses of asbestos, but little information is available on the quantities or proportions that are applied to the several uses. The classification by use, such as spinning fibres, cement stock, paper stock, and magnesia and compressed sheet fibres would seem to indicate distribution by use, but mixed grades are used so extensively that such a classification affords no criterion of the actual quantities applied to each use. Data on the grades, qualities, and quantities of fibre used, for instance, in asbestos-cement pipe, 85% Magnesia, or brake-band linings are not easily available."

This section concludes with a summary reading: "Substitution of other materials for asbestos is possible in some fields of use. Glass fibres are satisfactory as thermal insulators for low-temperature equipment and other applications in which the fibres are not exposed to water vapor or continued flexure. Glass fibres are good electrical insulators and therefore are used to some extent for wire covering and similar applications. Vitreous silica fibres will withstand more severe weathering conditions and higher temperatures than the soda-lime-silica glass fibres, but their manufacture is difficult. Also their flexibility is much inferior to that of asbestos. In some applications where the temperatures encountered are low and where chemical resistance is not important, organic fibres

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are satisfactory substitutes. In some instances, silicone rubber is substituted for asbestos in wire covering.

Glass fibres are now substituted to some extent for long-fibre chrysotile in cable coverings and fabrics, and more extensive substitution is anticipated."

Another interesting comment is found on the Elongation of Short Fibres: "There is urgent need for a larger supply of long spinning fibres of both the low-iron and the high-iron types. As pointed out elsewhere in this report spinning fibres produced in Canada constitute only about 4% of total production. If some method could be devised for converting short fibres into long ones, the situation might be relieved. To make short fibres out of long ones is easy; all mill operators wish that it were not so simple, but the elongation of short fibres is more difficult. Fortunately the research scientist is not terrified by apparently insurmountable barriers, and some research has already been done in this field."

Then there follows quite a discussion on the synthesis of asbestos altho the problem does not seem to have progressed very far. There is much other interesting information given in this "Survey" which our readers will be glad to have for ready reference, statistics of importance but need not be included here. We urge all of you to obtain a copy of the book and place it in your asbestos library.

Copies of the "Materials Survey on Asbestos" can be obtained from U. S. Government Printing Office, Division of Public Documents, Washington 25, D.C., for \$1.75—catalog No. 1,28.97: As 1.



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MARKET CONDITIONS

GENERAL BUSINESS.

The optimistic feeling mentioned last month has continued and even increased after the election results of November 4th were definitely known and will be very helpful to all business.

ASBESTOS — RAW MATERIAL.

There has been little change in the asbestos supply-demand picture in the past month.

The demand for most grades of asbestos shorts is about equal to the supply. The demand for grades from spinning down to 5 Group is equal or in excess of the supply. The only area in which any degree of freedom or surplus exists is in the 6 Group fibre.

ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. The demand for asbestos cloth is still in excess of production, particularly in 90% and 95% grades. The market remains firm for woven tapes, but there is some let-up in demand for asbestos yarns. The outlook for the balance of the year is excellent.

Asbestos Brake Lining. The jobber sales are running about 2% ahead of those for 1951. Inventories are in fairly balanced condition. This period is usually light due to taking of inventories and in some cases change over of major lines.

Asbestos Paper. The paper market shows some improvement from summer business. Stocks were low and buying today is filling in such stocks plus normal seasonal buying. There is a moderate pick-up in *Millboard* reflecting the settlement of the steel strike, and the outlook is normal for the future. The demand for *Asbestos Saturated*

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Paper exceeds production but is expected to slow up due to weather conditions. There is a considerable quantity of backlog orders.

Insulation. High Pressure. The market for high pressure insulation continues to be very active with deliveries running up to ten weeks. The bidding on applied work continues to be very competitive. Providing there are no further interruptions in general, the outlook is very good for the balance of the year.

Insulation. Low Pressure. The seasonal pick-up is creating more factory activity which should continue for several months.

Asbestos Cement Products. There is some slight falling off of sales which is expected at this time of the year. Present backlogs, however, are in fairly good shape to carry thru this month, and, from all indications, the first part of the coming year, barring unusual weather conditions, should see fairly steady business in the asbestos-cement products line.

The demand for corrugated and flat about meets production and there is a small backlog of orders.

The market for pressure pipe continues to hold its own. Sales for flue and house connection pipe are still seasonally high, with the conduit market continuing to show good demand.

Asphalt Tile. The demand for asphalt tile continues heavy and industry sales are currently running considerably ahead of the 1951 rate. It now appears that industry sales for this years will reach a total of 700 million square feet.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

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MINING AND MILLING CORPORATION OF AMERICA TO BEGIN PRODUCTION IN NOVEMBER 1952

By

Walter A. RuKeyser, Consulting Engineer

The newly organized Mining & Milling Corporation of America is starting production of anthophyllite asbestos fibres on a commercial scale in its recently completed pilot plant at Spruce Pine, North Carolina. The largest property, in relation to known ore-reserves, acquired by the company is the Blue Rock Mine*. It is anticipated that this deposit will permit sustained output of considerable tonnages of Group 7 Shorts annually and the mill's initial production will comprise those grades with special emphasis on a well-dusted 7-R.

Output of longer fibres also will be possible from the company's Keener and Bunton properties, which, tho located at some distance from the Spruce Pine mill can still ship ore economically to it.

The pilot plant incorporates what is believed to be a uniquely new flowsheet, patents for which are to be applied for. It is the result of considerable test work with all three types of rock differing considerably, as they do, in physical characteristics. The resulting plant appears to be sufficiently flexible to produce a range of well-opened, clean anthophyllite asbestos grades from a no-test 7-R to one having a fibre-length of 0—2—10—4 or higher. The different fibres, however, will not (for the time being at least) be produced simultaneously, but according to market demand. Furthermore, the mill has been so designed as to permit "custom-milling" for special orders to specified Rotap analysis.

All fibres, unless otherwise specified, will be packed in sewn paper bags containing 100 lbs. The mill is served

* (described in "ASBESTOS" September 1943 issue)



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BALTIMORE 30 612 Battery Ave.	DETROIT 21 14401 Prairie Ave.	KANSAS CITY 7, MO. 1401 St. Louis Ave.	NEW YORK 17 331 Madison Ave.
BOSTON 57 Regent St., N. Cambridge 40	HOUSTON 1 Commerce and Palmer Sts.	KNOXVILLE 1221 Grand Ave.	PHILADELPHIA 39 856 N. 48th St.
CHARLOTTE 3, N. C. 507 S. Cedar St.	INDIANAPOLIS 4 15 E. Washington St.	LOS ANGELES (Maywood): 6116 Walker Ave.	ST. LOUIS 9 3176 Brannon Ave.
CINCINNATI 2 427 West 4th St.	<p>In Canada: Mundet Cork & Insulation, Ltd., 35 Booth Ave., Toronto</p>		
		SAN FRANCISCO 7 440 Brannon St.	

by its own 12-car siding from the Clinchfield Railroad as well as by truck haulage over main U. S. highways.

Whereas most of the anthophyllite deposits of the district appear to consist of surficial lenses yielding comparatively limited ore-reserves (the Keener and Bunton are of this type), the Blue Rock deposit evidently owes its apparently large tonnage of mass-fibre to an entirely different geological origin. In this case the orebody seems to have been derived from what was originally an intrusion from depth of a ultramafic rock which later was completely serpentinised. The serpentine, in turn, was for all practical purposes, entirely altered to anthophyllite and talc, the only residual impurities consisting of occasional particles of unaltered serpentine. Hence, in contradistinction to most other deposits of this variety of asbestos, the deposit seems free from mica and magnetite. The fibre yield therefore depends almost solely upon the method of milling, i.e., the amount of fines produced by attrition but which in themselves should comprise readily saleable products.

A typical chemical analysis of Blue Rock ore shows the following:

Silica	54.60%
Magnesia Oxide	31.50%
Sulphur	0.05%
Phosphorus	0.01%
Ferrie Oxide (soluble)	0.38%
Ferrous Oxide (insoluble)	8.50%
Alumina, Calcium, Water, etc.	4.50%
	<hr/>
	99.54%

This chemical analysis makes the fibre particularly well suited for welding-rod coatings. Its high resistance to acids suggests other uses; and the fact that it is almost completely non-hygroscopic, for many purposes compensates for its lesser tensile strength as compared to chrysotile. Other tests have suggested applications where extreme conditions of temperature or dielectric coefficient must be taken into considerations.

Despite its lesser tensile strength this fibre in large-scale plant tests conducted by a principal asphalt-tile manufacturer has produced tile passing all government specifications when Blue Rock asbestos was used in a 60-40 mixture with Canadian 7-R. The saving in cost was important. Also, it has appeared probable that the fibre can be used without admixture with chrysotile in the manufacture of vinyl-tile. In both cases its economic utilization seemed to depend upon sufficient formula experimentation particularly in relation to the amount of scrap returned in the cycle.

Aside from these possibilities of utilization there appear to be a great many useages where strength is not of primary importance. Some which immediately suggest themselves are: auto-body under-coatings, roof coatings, gypsum plasters, lubricants, paints, cable insulations, foundry moulding sands, cold or hot moulded plastics, fillers, sealing compounds and, of course, as above mentioned, floor-tiles and welding-rod coatings.

The company's mines are developed for the economical production of mill-rock by open cut methods under conditions of moderate climate, good roads and thin overburden. The present plant is capable of immediate expansion when market demand for the new fibres warrant. The company is in financially strong hands, and, with research facilities which are now contemplated, it is possible that an important American source of asbestos fibre has been opened to the industry.

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"ASBESTOS" — November 1952

Page 31

PRODUCTION STATISTICS

Africa (S. Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2000 lbs.

Production for June 1952	7,324.22 tons
Valued at	£598,667
Production for June 1951	6,453.24 tons
Valued at	£471,920

Africa (Swaziland)

Production for September 1952	2,650 tons
-------------------------------------	------------

Canada

(Department of Mines, Province of Quebec)

Tons 2000 lbs.

Production for August 1952	74,683 tons
Compared with August 1951	77,782 tons
Dominion Production for August 1952 is 76,659 tons, a difference of 1,976 tons from the Quebec figure.	

Cyprus

(From W. Parry James, A. C. S. M., Inspector of Mines)

3rd Quarter (ending Sept. 30, 1952)

Tons—2000 lbs.

	July	August	September
Rock Mined	371,780	333,495	313,435
Rocked Treated	91,099	84,442	78,606
Fibre Produced	3,179	2,921	2,906
Fibre Exported	2,654	3,565	3,115

Imports of Asbestos by United Kingdom

Raw Material

August 1952
Tons (2240 lbs.)

From Union of South Africa	2,003
Southern Rhodesia	4,417
Basutoland, Bechuanaland & Swaziland	1,231
Canada	3,512
Other Commonwealth Countries and the Irish Republic	50
Foreign Countries	2
	<hr/>
	11,215

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for new and better uses
for basic Asbestos,
while maintaining
highest manufacturing standards,
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for over 68 years.



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Ductboard • Corrugated Air-Cell
Paper • Foil Clad Paper and
Board • Air-Cell Pipe Coverings and
Sheets • Wool and Sponge Felt Pipe
Coverings • Range Boiler Jackets •
Furnace Cement • Boiler Cements.

IMPORTS AND EXPORTS

Imports into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries

	July 1952 Tons (2240 lbs.)
From Canada	44,585
Southern Rhodesia	1,844
Union of S. Africa	888
Bolivia	49
Other Countries	19

47,385
Valued at \$4,743,352

By Grades:

Crude No. 1, Chrysotile, Canada	41
Crude No. 1, Chrysotile, So. Rhodesia	18
Crude No. 2, Chrysotile, Canada	25
Crude No. 2, Chrysotile, So. Rhodesia	95
Crude, Other, Chrysotile, U. of S. Africa	270
Crude, Other, Chrysotile, So. Rhodesia	568
Crude, Other, Chrysotile, Other Countries	17
Crude, Blue, Bolivia	49
Crude, Blue, U. of S. Africa	618
Crude, Amosite, U. of S. Africa	1,163
Textile Fibres, Chrysotile, Canada	1,772
Textile Fibres, Chrysotile, Other Countries	2
Shingle Fibres, Chrysotile, Canada	6,431
Paper Fibres, Chrysotile, Canada	5,883
Other Fibres, Chrysotile, Canada	30,433

47,385

Manufactured Asbestos Goods:

	July 1952 Quantity (lbs.)	Value
Asbestos Yarn		
United Kingdom	25,134	\$13,557
Asbestos Packing—Fabric	1,530	1,394
Asbestos Packing—Not Fabric	1,540	1,225
Asbestos Woven Fabrics—Other	7,213	5,912
Asbestos Cement Products (Impreg.)	8,571	1,372
Asbestos Cement Products (Not Impreg.)	34,380	1,541
Asbestos Manufactures—Others	995
	78,368	\$25,956

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Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	July 1952	
	Tons (2240 lbs.)	Value
To Europe	190	\$ 60,662
South America	200	59,203
Other Countries	109	34,241
	499	\$154,106

Manufactured Asbestos Goods:

	July 1952	
	Quantity	Value
Asbestos Pipe Covg. & Cement	Lbs. 655,683	\$ 96,078
Asbestos Textiles & Yarn	Lbs. 34,499	52,004
Asbestos Packing	Lbs. 105,405	100,162
Asbestos Bk. Lng. (Mld.&S.Mld.)	Lbs. 288,488	282,894
Asbestos Bk. Lng. Woven	Lin. Ft. 22,224	22,337
Asbestos Clutch Facings	No. 104,310	67,096
Asbestos Brake Blocks	Lbs. 18,760	23,149
Asbestos Construction Materials	Lbs. 1,798,779	160,760
Asbestos Manufactures—Others	Lbs.	39,720
		\$844,200

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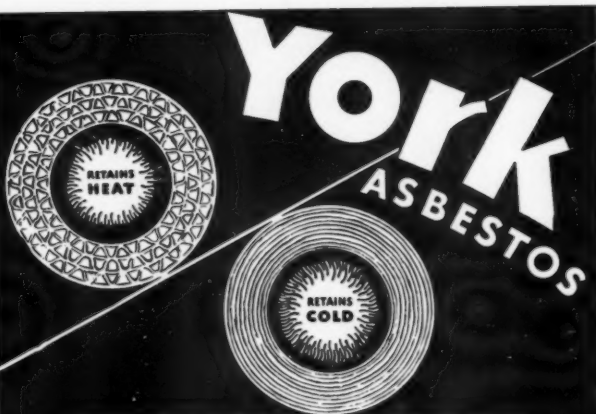
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Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

July 1952

Crude

Tons (2000 lbs.) Value

United States	16	\$ 15,076
United Kingdom
South America
Central America & Mexico
European Countries	30	6,897
Other Countries	1	1,231

47 \$ 23,204

Milled

United States	14,095	\$2,362,395
United Kingdom	2,711	548,284
South America	1,398	228,544
Central America & Mexico	568	94,326
European Countries	4,343	714,103
Other Countries	2,915	461,027

26,030 \$4,408,684

Shorts

United States	33,360	\$1,541,367
United Kingdom	1,340	63,356
South America	605	46,723
Central America & Mexico	43	1,667
European Countries	4,770	350,357
Other Countries	1,532	121,003

41,650 \$2,124,473

Grand Total—Unmanufactured Asbestos....

67,727 \$6,556,361

Manufactured Asbestos Goods:

Brake Lining	\$ 56,566
Packing	4,053
Other Materials	37,605

\$ 98,224

CAREY'S NINE MONTHS REPORT

Report for the nine months ending September 30, 1952 was issued October 24th by the Philip Carey Mfg. Company and gives the following figures:

Sales	\$39,270,463
Compared with same period in 1951	42,607,435
Net earnings after income taxes 1952	1,586,251
Compared with same period in 1951	2,185,277
Earnings per common share in 1952	1.91
Compared with same period in 1951	2.65

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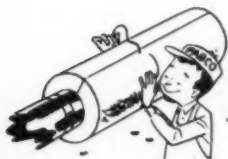


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NEWS OF THE INDUSTRY

BIRTHDAYS

- J. E. Fleming, Manager, Kelley Asbestos Products Co., Kansas City, Mo., November 16.
- A. J. Scanlan, President, American Asbestos Textile Corporation, Norristown, Pa., November 21.
- J. A. Marcotte, General Sales Manager, Asbestos Corporation Ltd., Thetford Mines, Canada, November 22.
- F. R. Anderson, Vice President, Sall Mountain Company, Hamilton, Ohio, November 24.
- Alvin C. McCord, President, McCord Radiator & Mfg. Company, Detroit, Michigan, November 24.
- John J. Krez, Chairman of Board, Paul J. Krez Company, Chicago, Ill., November 26.
- L. W. Dennis, Commercial Manager, The Cape Asbestos Company, Ltd., London, England, November 27.
- Thomas C. Young, President, Pacific Roofing Co., Portland, Oregon, November 28.
- Frank N. Grossman, Secretary, Arnold Insulations Inc., Chicago, Ill., November 28.
- E. T. Connell, President, Connell Asbestos Company, Brooklyn, N. Y., November 29.
- R. E. Kramig, Senior Partner, R. E. Kramig & Company, Cincinnati, Ohio, November 29.
- W. L. Spielberger, Director in Charge of Finances, Keasbey & Mattison Co., Ambler, Pa., November 30.
- Frank G. Ruggles, President, Frank G. Ruggles & Company, New York City, December 2.
- Harvey D. Burgstresser, Philadelphia Asbestos Company, Philadelphia, Pa., December 3.
- Irving Kevelson, Ace Asbestos Mfg. Company, Jersey City, N. J., December 4.
- D. A. McMillan, Vice President, Gulf States Insulation Company, Mobile, Ala., December 4.
- Victor Mauck, President, Nicolet Asbestos Mines, Norristown, Pa., December 6.
- P. M. Berry, Secretary & Treasurer, Standard Asbestos Mfg. Co., Cleveland, Ohio, December 8.
- E. J. Fasold, Secretary, The Philip Carey Mfg. Company, Cincinnati, Ohio, December 8.
- Kenneth MacLellan, Managing Director, George MacLellan & Co., Ltd., Glasgow, Scotland, December 8.
- D. W. Widmayer, Vice President & Director in Charge of Sales, Keasbey & Mattison Co., Ambler, Pa., December 12.
- John O. Camp, Vice President, Southern Friction Materials Co., Charlotte, N. C., December 13.
- George P. Grossman, President, Asbestos Products Co., Inc., Lakewood, Ohio, December 13.

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Fred Lee Johnston, Supt., Southern Friction Materials Co., Charlotte, N. C., December 13.

To all these gentlemen we extend best wishes and congratulations on the occasion of their birthdays.

UNARCO INAUGURATES 25-YEAR CLUB

Union Asbestos & Rubber Company inaugurated the Unarco 25-Year Club at a dinner in the Sherman Hotel, Chicago, on October 10th, honoring seventeen employees for their 25 years or more of continuous service with the Company since its incorporation in March 1918 by the late L. Lewis Cohen.

Oldest in point of service is Vice-President *Charles L. Moorman*, with 31 years as head of the Equipment Steel Products Division which was the plant of Western Pipe & Steel Company prior to its acquisition by Union Asbestos in 1937. Other Espro Division members are: *Frank Ciezaldo*; *Sam Cohen*, brother of the founder; *Andrew Muhr*; *Adolph Titz*; *John Tietz*; *Joseph Welcing* and *Lawrence Zaccane, Sr.*

Old timers now in the Fibrous Products Division or General Offices are *Arthur Byrnes*, *Thomas Martin*, *Louis Novak*, *William Sharp*, *Florence Smith*, *Louis Stein* and *Louis Trnovec*.

Two other officers of the Company also became members: *John S. Lundvall*, Vice President, Equipment Specialties Division; and *Philip S. Nash*, Vice President in charge of railroad sales on the Pacific Coast.

Following the presentation of the service awards by *Norman C. Naylor*, President of the Company, members elected as officers of the 25-Year Club for the coming year—*Charles L. Moorman*, President; *Louis Stein*, Vice President and *Florence Smith*, Secretary.

ENGINEERING SPECIFICATIONS FOR INSULATION

Surfacing Now Available From Foster

Benjamin Foster Company, Philadelphia, Pa., principal developers of surface coatings and adhesives for thermal insulations, have published a reference guide and index to specifications covering Foster's recommended surfacings for industrial insulations under almost all conceivable conditions of service and abuse.

Engineers, architects or contractors consulting the Index to Foster Specifications can find at a glance the code letter of the recommended Foster specification for the protective surfacing of any insulating material under any type or combination of surface conditions. A post card or letter request to the company will then bring the correct Foster Specification to fill the need.

Since there are so many combinations of insulation surface conditions and therefore so many recommended surfacing procedures, it is stressed by the Foster company that their specifications should be consulted with discretion and used with only the Index.

Copies of the Index to Foster Specifications are available to engineers, architects, contractors, and others working with industrial thermal insulations, by request on business letterhead to

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**ASSOCIATED ASBESTOS CONTRACTORS
Annual Meeting**

The Associated Asbestos Contractors of the Southeastern States Inc. held their Annual Meeting at Waynesville Country Club, Waynesville, N.C., September 30 to October 2, 1952.

The following new officers and directors were elected: President: *W. L. Markert* of Atlanta, Ga.; Vice President: *John L. Falconer* of Atlanta, Ga.; Secretary: *Bob Smith* of Knoxville, Tenn.; Treasurer: *J. P. Ennis* of Birmingham, Ala. Directors are: *A. C. Robert* of Charlotte, N.C.; *C. H. Tichenor* of Greensboro, N.C.; and *T. L. Gann* of Knoxville, Tenn.

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A vast number of such jobs which are constructed at different locations in the United States are originated in the New York Area

An inquiry from out-of-town Insulation Contractors, to take-off and estimate Insulation jobs for projects located in their respective territories but originating from the New York Area will be appreciated.

As an additional service will follow and endeavor to close for those interested.

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BUILDING

Construction contracts awarded in the 37 states east of the Rockies for the first nine months of 1952 were 2 per cent higher than the corresponding period a year ago, according to F. W. Dodge Corporation, construction news and marketing specialists. This, despite inclusion in 1951 figures of \$980 million in Atomic Energy Commission project awards. Without these awards in the comparative 1951 figures, the current year is running 10 per cent ahead of last year.

The nine-month 1952 awards total is \$12,747,791,000.

Construction awards for the month of September showed a new surge of building activity with a total of \$2,039,203,000 which was 42 per cent more than August and a whopping 88 per cent greater than September 1951.

Individual classifications for September showed non-residential awards of \$1,272,367,000 which were 145 per cent more than August and 215 per cent over September 1951. Residential awards totaling \$518,471,000 were 17 per cent less than August but 8 per cent more than September last year. Public and private works and utilities at \$248,365,000 were 15 per cent below August but 25 per cent above September 1951.

Comparing nine-month 1952 totals with nine months 1951, non-residential at \$5,053,968,000 was down 8 per cent. (Note: Less AEC awards included in 1951, this year was UP 12 per cent); residential at \$5,098,182,000 was up 4 per cent; public and private works and utilities at \$2,595,641,000 gained 22 per cent.

September 1952 Non-residential contract Award figures include the following Atomic Energy Commission projects: 1 Project in Roane county, Tenn., \$464,000,000; 1 Project in McCracken county, Ky., \$459,000,000.

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"ASBESTOS" — November 1952

Page 53

S. E. SHEPARD NAMED SALES MANAGER
of Thermoid's Replacement Division

S. E. (Sid) Shepard, widely known in the automotive industry, has been named sales manager of Thermoid Company's automotive replacement division.

Mr. Shepard has been engaged in the automotive replacement business for over 20 years, beginning at the Multibestos Company as a sales correspondent. He later served that company as sales manager. He became director of replacement sales of Raybestos Division, Raybestos-Manhattan, Inc., after that firm purchased Multibestos in 1935. In 1947 he became vice-president and general sales manager of Asbestos Manufacturing Company, a Thermoid subsidiary at Huntington, Indiana.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

October 1952				
	Par	Low	High	Last
Amer. Br. Shoe (Com).....	np	36%	39¼	37¼
Amer. Br. Shoe (Pfd).....	100	102	105	102¾
Armst. Ck. (Com).....	np	47	53½	47%
Armst. Ck. (Pfd).....	np	95¾	98½	96
Armst. Ck. (Conv. Pfd).....	np	108¼	111½	108½
Asb. Corp. (Com).....	np	22%	24%	23¼
Carey (Com).....	10	16½	17	17
Celotex (Com).....	np	15½	17	16
Celotex (Pfd).....	20	16¼	16½	16%
Certainteed (Com).....	1	13½	14½	13%
Flintkote (Com).....	np	27½	28¾	28%
Flintkote (Pfd).....	np	96	100½	100
Johns-Manville (Com).....	np	71¾	77	73
Pabco Products (Com).....	np	11	14½	11¾
Pabco Products (Pfd).....	100	90	94	90½
Ray-Man (Com).....	np	41½	44½	42½
Ruberoid (Com).....	np	56	63¼	59½
Thermoid (Com).....	1	8¾	9%	9½
Thermoid (Pfd).....	50	41½	43	42½
Union Asb. & Rub. (Com).....	-5	12%	13¼	13
United Asb. (Com).....	1	\$1.99	\$2.70	\$2.50
U. S. Gypsum (Com).....	20	106½	115¼	107
U. S. Gypsum (Pfd).....	100	173	175	174
U. S. Rubber (Com).....	10	22½	24½	24½
U. S. Rubber (Pfd).....	100	137	140½	139½
Dominion Asb. Mines.....	1	\$4.40	\$5.10	\$4.65

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November 10, 1952

Arizona—		Per Ton of 2,000 lbs., f.o.b. Globe, Arizona	
No. 1 Crude.....	1,290.00 to	1,600.00	
No. 2 Crude.....	900.00 to	1,000.00	
No. 3 Crude.....	375.00 to	450.00	
Filter Fibre.....	425.00 to	475.00	

Canada—		Per Ton (2000 lbs.) f.o.b. Mine	
Group No. 1 (Crude No. 1)	\$1,100.00 to	\$1,500.00	
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	500.00 to	1,000.00	
Group No. 3 (Spinning Fibre)	300.00 to	525.00	
Group No. 4 (Shingle Fibre)	150.00 to	200.00	
Group No. 5 (Paper Fibre)	100.00 to	140.00	
Group No. 6 (Waste, Stucco or Plaster)		77.00	
Group No. 7 (Refuse or Shorts)	35.00 to	70.00	

Vermont—		Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville Vt.	
Group No. 3 (Spinning & Filtering)	321.00 to	348.00	
Group No. 4 (Shingle Fibre)	156.00 to	173.00	
Group No. 5 (Paper Fibre)	110.00 to	132.00	
Group No. 6 (Waste, Stucco or Plaster)		78.00	
Group No. 7 (Refuse or Shorts)	37.00 to	68.50	

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STATEMENT OF THE OWNERSHIP, MANAGEMENT, AND CIRCULATION REQUIRED BY THE
ACT OF CONGRESS OF AUGUST 24, 1912, AS AMENDED BY THE ACTS OF MARCH 3,
1933, AND JULY 2, 1946 (Title 39, United States Code, Section 233)

Of "ASBESTOS" published monthly
(Insert exact title of publication) (State exact frequency of issue)
at Philadelphia, Pa. for October, 1952.
(Name of post office and State where publication has second-class entry)

1. The names and addresses of the publisher, editor, managing editor, and business managers are:

	Name	Address
Publisher	Secretarial Service	806 Western Saving Fund Bldg., Phila. 7, Pa.
Editor	A. S. Rossiter	Blue Bell, Montg. Co., Pa.
Managing editor	A. S. Rossiter	Blue Bell, Montg. Co., Pa.
Business manager	A. S. Rossiter	Blue Bell, Montg. Co., Pa.
	E. E. Cox	1207 Chester Ave. Phila. 43, Pa.

2. The owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual member, must be given.)

Name	Address
Estate of C. J. Stover	1912 Lambert Road, Jenkintown, Pa.

3. The known bondholders, mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.)

Name	Address
None	

4. Paragraphs 2 and 3 include, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting; also the statements in the two paragraphs show the affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner.

5. The average number of copies of each issue of this publication sold or distributed, through the mail or otherwise, to paid subscribers during the 12 months preceding the date shown above was: (This information is required from daily, weekly, semi-weekly, and tri-weekly newspapers only.)

E. E. Cox
(Signature of editor, publisher, business manager, or owner)

Sworn to and subscribed before me this 11 day of September, 1952

(Notary)

(My commission expires 3/6/1953)

THE ASBESTOS & MAGNESIA MATERIALS CO.

Appoints P. D. Beaner as Vice President

P. D. Beaner has been appointed Vice President of The Asbestos & Magnesia Materials Co., as announced by Frank P. Kuchenbecker, President. Mr. Beaner has been active in the industry for more than 40 years.

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JOHNS-MANVILLE JOINS OTHER COMPANIES To Explore Asbestos Deposits In Colombia

Participation by Johns-Manville Corporation in a company formed to explore asbestos deposits in the Department of Antioquia, Colombia, was announced on October 14th by A. R. Fisher, President.

The new company, to be known as Asbestos Colombianos, S.A., will include, in addition to Johns-Manville, Eternit Colombiana, S.A.; Sociedad Colombiana de Asbestos Ltda.; and the Institute de Fomento Industrial, a Colombian government organization devoted to promoting the industrial development of the country.

Johns-Manville will furnish the technical personnel for exploring the Antioquia deposits to determine their economic value, and, if the results are favorable, will design a mill and other facilities necessary to the production of asbestos fibre. Johns-Manville will also provide research testing, grading and assaying asbestos fibre produced by Asbestos Colombiana, S.A.

AUTOMOBILE SALES

September 1952

Passenger Cars	438,397
Motor Trucks	112,374
Motor Coaches	387
	<hr/>
	551,158

In September 1951, a total of 476,002 motor vehicles were sold. In the nine months of 1952 the total was 3,879,733.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

W. E. SINCLAIR, M.I.M.M.

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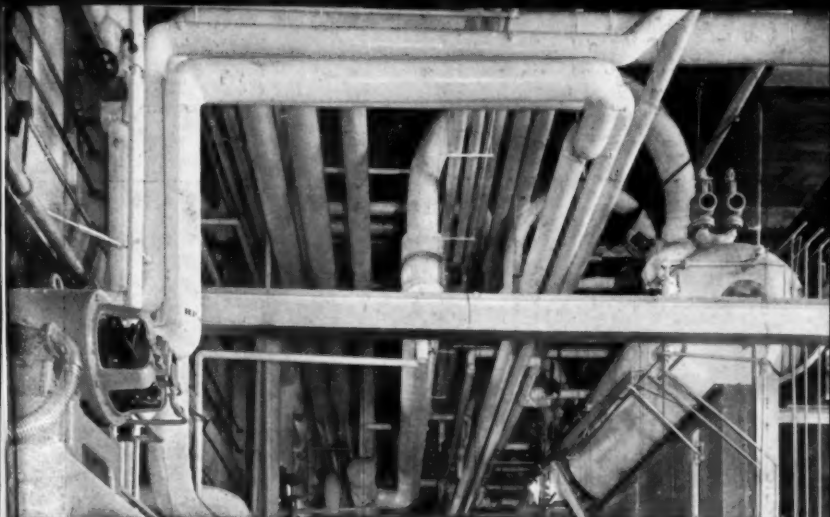
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